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Manual Calculation of Star Time at Birth for computation of Houses using Astrological Tables of Houses

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Introduction

The exact zodiac degree (minutes and seconds) that is rising in the eastern horizon at the time of birth is called Janma Lagnam or Ascendant. The zodiac degree that is at the zenith (exactly overhead 90^0 to the horizon) at the time of birth is the 10th house, mid-heaven or the meridian cusp. As the entire zodiac consisting of 12 signs describes a great celestial circle of 360^0 , each sign comprises 30^0 of zodiac arc and all the 12 houses (cusps or Bhavas) fall within these 12 signs. For example, if one says at the time of birth 215^{th} degree of zodiac sign was rising in the eastern horizon, we say birth took place during Vrischika laganm as the zodiac sign Vrischikam is assigned an arc between 210^0 and 240^0 . The twelve zodiac signs and their arc span are given in the table below.

Table 2 Zodiac signs and their span in the celestial arc

No.	Zodiac sign	Arc span degrees	No.	Zodiac sign	Arc span degrees	No.	Zodiac sign	Arc span degrees
1	Mesham (Aries)	0^0 - 30^0	5	Simham (Leo)	120^0 - 150^0	9	Dhanus (Sagittarius)	240^0 - 270^0
2	Vrishabham (Taurus)	30^0 - 60^0	6	Kanya (Virgo)	150^0 - 180^0	10	Makaram (Capricorn)	270^0 - 300^0
3	Mithunam (Gemini)	60^0 - 90^0	7	Thula (Libra)	180^0 - 210^0	11	Kumbham (Aquarius)	300^0 - 330^0
4	Karkatakam (Cancer)	90^0 - 120^0	8	Vrischikam (Scorpio)	210^0 - 240^0	12	Meenam (Pisces)	330^0 - 360^0 (or 0^0)

It may be mentioned that as the earth takes 24 hours to rotate on its axis, all the 12 zodiac signs would be rising in the eastern horizon sequentially one after another in 24 hours. That is to say each sign of 30^0 takes about 2 hours to come up entirely, all the 12 signs taking 24 hours. For example, as a thumb rule, around April 15 of every year, 0^0 of zodiac (Mesham) will be rising at the eastern horizon along with Ravi. Let us suppose that Sunrise on that day is at 6:00 AM; then by 8:00 AM, the entire Mesham would have risen. For next two hours (up to 10:00 AM) the sign Vrishabham rises and if birth occurs during this time interval, Janma Lagnam will be Vrishabham. The sequence

continues. Thus depending on the time of reckoning, whichever sign would be rising in the eastern horizon, becomes Lagnam at that time.

(In this notes, whenever the term "minutes" is mentioned, it refers to time. The term "arc minutes" refers to the measure of zodiac arc in space.)

Ravi (the Sun) also traverses through the zodiac. But unlike the earth, Ravi is a slow moving Graha (Planet) and travelling about 1^0 (57 arc minutes to 63 arc minutes) of zodiac per day, takes nearly one year to complete one cycle. That is Ravi will be in any zodiac sign for 30 days (almost one month). Usually according to Nirayana Paddhathi of computing Panchangam, Ravi enters Mesham (Aries) around April 15 and on that day along with Ravi 0^0 of zodiac (Mesham) also rises. Next day, along with Ravi 1^0 of Mesham rises and the sequence continues. For next 30 days Ravi travels through the sign. Then around May 15 He enters Vrishabham and so on. This gets repeated every year. We know Ravi rises in East and as the zodiac sign also rises in East, along with Ravi, every day a particular degree of zodiac will also be rising. Thus knowing the date and month it is possible for us to identify the zodiac sign rising at the time of sunrise. Thus Ravi is a very good zodiac keeper.

(Guess what zodiac sign would be rising on August 25.

On April 15, Ravi enters Mesham and for next 30 days He is that sign. Next 30 days He traverses through Vrishabham. From April 15 to August 25, there are 132 days. 30^0 of zodiac are covered in 30 days, so in 132 days, 4 zodiac signs (a total of 120^0) are already traversed by Ravi and He will be in the 5th sign (Simham). Depending upon the daily motion of Ravi (between 57 and 63 arc minutes), He will be rising along with 8^0 to 12^0 of Simham.)

It should be mentioned that identification of Lagnam computed as mentioned above is only a gross one. The reasons are many. For example, the orbiting paths of the planets including our own earth do not describe perfect circles in space and their daily motion is also not uniform. Added to this the very concept of time as we normally use in our daily life also contributes to deviations. Further, as the Lagnam is the zodiac degree rising in the Eastern horizon, the rising degree depends on the Latitude of the place. Even for the same time, Lagnam would be different for different places depending upon the Latitude. For accurate calculation of all the zodiac houses the positions of planets at any given time and rigorous computations are absolutely necessary. Knowledge of Logarithms, Trigonometry and Spherical Geometry is required. In this notes an attempt is made to describe the methodology to be used to compute all the 12 houses in the birth chart. The positions of the planets can be calculated using the procedures given in an earlier book "Panchangam calculations". The method described here is not entirely manual. The computation of "Star time at Birth" is done manually. Then Astrological Tables of Houses are used to compute the 12 Houses.

The concept of measurement of Time

Even though "Time" has the same meaning in the entire world, each Country uses her own "Standard Time" concept. This is purely an administratively convenient concept to suit the requirements of her populace for optimum use of daytime. That is why the concept of "Time Zone" has been defined. To understand the concept of time zone, we need knowledge of Longitude and "standard longitude" of a Country. Longitude is an imaginary line drawn on the earth from North Pole to South Pole crossing the earth's equator. For correct identification of longitude of a place on the earth, the longitude is always referred to a reference place. Greenwich in UK has been accepted by the entire world as this reference point. The longitude passing through Greenwich is arbitrarily assigned "zero degrees (0°)" value. All the longitudes East of Greenwich are referred to as East Longitudes and those West of Greenwich are West longitudes. For instance, our Country India is east of Greenwich, East longitude passes through our Country. The USA is in western hemisphere; so West longitudes pass through that Country.

As the earth rotates from West to East, Countries east of Greenwich will have sunrise earlier than Greenwich. The Countries west of Greenwich will have sunrise later than Greenwich. We can imagine 12 main longitudes East of Greenwich at 15° intervals and an equal number of longitudes west of Greenwich. Thus there are 24 main longitudinal divisions of the Earth 12 on each of Greenwich. " 80° E" means eighty degrees east of Greenwich. " 70° W" means seventy degrees West of Greenwich. For the sake of convenience, the world is divided into different time zones depending on the main longitudes passing through a region. As the earth takes 24 hours for one rotation (360°) for every 15° of change in longitude, time is changed by one hour. (360° are covered in 24 hours; so in one hour $360^{\circ}/24 \text{ hours} = 15^{\circ}/\text{hour}$.) It is one hour ahead of Greenwich for every 15° East of Greenwich and one hour behind of Greenwich for every 15° West of Greenwich. Each Country may have accepted one or more Longitudes passing through her territory as standard longitudes. Time zones are expressed by referring to these standard longitudes. India has 82.5° E as its standard longitude. Hence our time zone is $82.5^{\circ}/15^{\circ} \times 1 \text{ h} = 5\text{h}-30\text{m}$ east (or + 5h-30m east of Greenwich). What it means is if it is 0:0 hours (midnight) at Greenwich, time in our Country is 5:30 AM. Time as read at 82.5° E is our Country's standard time. It is called Indian standard time (IST). Similarly other Countries have their own standard longitudes and their standard times. Large Countries like the USA and Russia have different standard longitudes on their territories and hence different time zones. Now each Country may have sunrise everyday around 6:00 AM. But 6:00 AM in a Country will not be 6:00 AM in other Countries because of the time zones!

Another factor to be considered is the concept of summer time or daylight saving time. Some Countries advance their standard time during summer by one or two hours to save on daylight. This is called daylight saving time of summer time. During winter they revert back to standard time. This also should be considered while computing Lagnam.

Even though having a standard time is very convenient administrative practice for a Country, it cannot be used for computing Lagnam. Our Country is located roughly between 69° E (Bhuj in Gujarat) and 94° E (Kohima in Nagaland) longitudes. According to standard longitude 82.5° E, if it is 12:00 noon, officially it is noon throughout the Country. But the local time at a place could be different. Knowing the relation between longitude and the time it is possible to compute local time. If at 82.5° it is 12:00 noon, in Bhuj at 69° , it would be 11:06 hrs (how?) and 12:46 hrs in Kohima (How?). These local times are needed for computing Lagnam.

As if this is not enough, even after making all the necessary corrections to the recorded time of birth, there is another very fundamental difficulty in accepting the same for computing Lagnam. This arises due the way the time is measured. We define a day as the time taken for the earth to rotate exactly 360° on its axis. We take Ravi (the Sun) as the reference point and the time taken by the earth to complete one rotation to come back exactly in line with Ravi is 24 hours or one day. If we recall that during this time Ravi would move by 1° in the cosmos, the earth has to cover that one extra degree (361° instead of 360°) to be in line with Ravi. But if the rotation of the earth is viewed against a distant stellar background, earth is seen to complete one rotation of 360° in about 3m-56s less than 24 hours as measured now. This measure is called "Star Time" or sidereal time. For correct computation of Lagnam, this star time and not the familiar "clock time" should be considered. In one year this difference comes to be exactly 24 hours of clock time and both star time and clock time reference points synchronise. Next day onwards sidereal time accelerates and moves faster than the clock time. It is thus seen that star time is faster than clock time and this extra time needs to be added to the clock time to keep in pace with the star time. Depending on the time of birth a proportional quantity of 3m-56s (or 3m-57s) need to be either added or subtracted. Sidereal times are normally computed either at GMT noon or at 0:0 hrs GMT and are given in the respective ephemeris (noon ephemeris or midnight ephemeris) along with positions of planets and other astronomical data. We should consult them for incorporating necessary corrections to the birth time. The sidereal time should then be corrected for the birth time and longitude. Finally after incorporating all corrections and before proceeding to computation of Lagnam we have to ensure that the corrected birth time is expressed in local time and not in IST or GMT. It should be clearly understood that for House computations, we should use local time. The final result is called Star Time at Birth (STB). This will then be converted into arc degrees and arc minutes which is called Right Ascension to Meridian Cusp (RAMC). Calculation of accurate star time at birth and hence RAMC is very crucial for accurate casting of horoscope.

Another important thing to consider is whether one wants the horoscope be cast according to Sayana Paddhathi or Nirayana paddhathi. If Nirayana horoscope is to be cast we should subtract Ayanamsa from the longitudes of Houses obtained. It must have become quite clear to the discerning reader that computation of sidereal birth time and RAMC involves many factors and one should have patience to proceed systematically to arrive at a correct value. We will take some examples to compute star

time at birth and RAMC. Then we will use the astrological tables of houses to compute all the Houses. We will attempt to compute RAMC by using both ephemeris namely "zero hour" (0:0 UT) ephemeris as well as "noon" (12:00 UT) ephemeris.

(In Noon Ephemeris counting of sidereal time commences from noon of March 21 every year. In midnight ephemeris counting of sidereal time commences from midnight of September 21 every year.)

Once we have calculated RAMC accurately, we have to use astrological tables of houses to compute different houses (cusps or bhavas). Usually these tables of houses are given for northern longitudes. For southern longitudes, add 12:00:00 to the RAMC if it is less than 12 or subtract 12 from the RAMC if it is more than 12 and use the result (new RAMC) to calculate the houses corresponding to this new value. Then subtract 180° from each house to get the houses (bhavas or cusps) for the south longitudes (we will solve some examples).

Example 1: Date of birth: 25-8-1952 (August 25, 1952)
 Time of birth: 12:45:00, **IST**
 Place of birth: Cuddapah, India (**14:30 N, 78:47 E**)
 Standard longitude: **82:30 E**
 Day light saving time?: No

Table 2 Sidereal time Table for selected dates in August 1952

Date	ST at 0:0 UT (GMT)	ST at 12:00 UT (GMT)
24:08:1952	22-08-51	10-10-49
25:08:1952	22-12-48	10-14-46
26:08:1952	22-16-44	10-18-42

Computation based on zero hour ephemeris

Step 1: Convert IST to GMT (Use standard longitude for converting)

Standard longitude = 82°:30' E = 82.5°

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5 : 30$

Longitude is East of Greenwich.

Hence Birth time in GMT = 12:45:0 - 5:30:0 = 7:15:00 GMT

Step 2: Get the sidereal time on 25-8-1952 from ephemeris. Let us use Swiss ephemeris for the year 1952 (see Table 2 above). Swiss ephemeris is computed for exactly 0:0 GMT (or Universal Time UT). The sidereal time on 25-8-1952 is given as 22:12:48 at 0:0 UT. We have to compute the sidereal time at the birth time of 7:15 GMT. This can be obtained by ratio proportional method. On 26-8-1952, the sidereal time is given as 22:16:44. That is in 24 hours from 25th to 26th, the sidereal time is changed by 22:16:44

- 22:12:48 = 00:3:56 = 236 sec. Now for 24 hours change in sidereal time is 236 sec. For 7:15:0, the change in sidereal time is $\frac{7:15:0}{24} \times 236 \text{ sec} = 71.3 \text{ sec} = 71 \text{ sec} = 00:1:11$
Sidereal time at birth time (GMT) = 22:12:48 + 00:01:11 = 22:13:59

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = 7:15:0 + 22:13:59 = 29:28:59 (GMT)

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 E and not 82:30 E).

Star time at birth (Local) = 29:28:59 + $\frac{78:47(\text{degrees})}{15(\text{degrees / hr})} = 5.25222 \text{ hrs}$
= 29:28:59 + 5:15:8 = 34:44:7

Subtracting 24 hrs from the result we get RAMC = 34:44:7 - 24:00:00 = **10:44:7**

Now let us compute Lagnam and other Houses (Cusps or Bhavas). We use astrological tables of houses for this purpose. An extract of these Tables is shown below.

Table 3 Extract from Tables of Houses

RAMC (H:M)	10	LATITUDE : 14 N						LATITUDE : 15 N					
		11	12	LAGNA	2	3		11	12	LAGNA	2	3	
10:42	158:54	191:2	220:22	246:44	275:52	306:30		190:60	220:11	246:21	275:35	306:23	
10:45	159:42	191:49	221:6	247:24	276:34	307:15		191:47	220:54	247:1	276:17	307:8	
11:45	175:55	207:20	235:17	260:56	290:44	322:43		207:15	235:4	260:31	290:28	322:37	
11:48	176:44	208:5	235:59	261:37	291:28	323:31		208:1	235:46	261:12	291:11	323:25	
22:42	338:54	11:51	45:48	77:37	103:21	129:36		11:53	46:2	78:2	103:38	129:42	
22:45	339:42	12:41	46:36	78:19	104:2	130:19		12:43	46:49	78:45	104:18	130:26	
23:15	347:46	21:2	54:23	85:21	110:52	137:38		21:6	54:38	85:47	111:8	137:44	
23:18	348:35	21:52	55:8	86:3	111:34	138:22		21:56	55:24	86:28	111:49	138:28	

For Sothorn Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

The latitude of birth place is 14:30 N and the RAMC is 10:44:7. If we look up in the Table above, RAMC (first column) is in between 10:42 and 10:45. The latitude is in between 14 and 15. We have to use interpolation to calculate the houses for 14:30 N and RAMC 10:44:7.

From the Table it is seen that for a change in RAMC of 3 min (180 sec), the 10th house changes from 158:54 to 159:42 = 48 arc min. The difference between RAMC of 10:44:7 and 10:45:00 is 53 sec. So in the period of 53 sec, the 10th house changes

by $\frac{53}{180} \times 48 = 14.133 = 14$ arcmin. This should be subtracted from the 10th house value at 10:45 to get 10th house for RAMC.
 10th house = 159:42:00 – 00:14 = 159:28
 Similarly all the other houses are computed for RAMC of 10:44:7. These are given below.

RAMC = 10:44:7

House	Latitude 14 N	Latitude 15 N	Latitude 14:30 N	Rasi
10	159:28	159:28	159:28	Kanya 9:28
11	191:36	191:34	191:35	Thula 11:35
12	220:53	220:42	220:47:30	Vrischikam 10:47:30
Lagna	247:12	246:49	247:00:30	Dhanus 7:00:30
2	276:22	276:05	276:13:30	Makaram 6:13:30
3	307:02	306:55	306:58:30	Kumbham 6:58:30

It should be made clear that the house positions obtained as above refer to Sayana houses. To compute Nirayana houses, we should subtract Ayanamsa for the birth year. The Ayanamsa may be calculated using the equation:

For the beginning of the year:

$$A = -6.92416 + 16.90709 \frac{\text{year}}{1000} - 0.757371 \frac{\text{year}}{1000} \frac{\text{year}}{1000}$$

$$B = \left(\text{Month} - 1 + \frac{\text{Day}}{30} \right) \times \frac{1.1574074}{1000}$$

Ayanamsa = A + B. The result will be in degrees. Convert into Degrees, Minutes and Seconds. For 25-8-1952, the Ayanamsa is 23-5-34. The Nirayana Houses are:

House	Sayana system	Nirayana system (Sayana house-Ayanamsa)
10	Kanya 9:28	Simham 16:22:26
11	Thula 11:35	Kanya 18:29:26
12	Vrischikam 10:47:30	Thula 17:41:56
Lagna	Dhanus 7:00:30	Vrischikam 13:54:56
2	Makaram 6:13:30	Dhanus 13:07:56
3	Kumbham 6:58:30	Makaram 13:52:56

The other houses namely 4, 5, 6, 7, 8 and 9 are exactly degreecally opposite of the houses 10, 11, 12, Lagna, 2 and 3 respectively. In the above case, these are respectively, Kumbham, Meenam, Mesham, Vrishabham, Mithunam and Karkatakam. Nirayana houses are used in India for casting the horoscopes.

Now let us calculate RAMC using noon ephemeris for the example 1 given above.

Computation of RAMC based on noon hour ephemeris

Step 1: Convert IST to GMT (Use standard longitude for converting)

Standard longitude = $82^{\circ}:30' \text{ E} = 82.5^{\circ}$

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5 : 30$

Longitude is East of Greenwich.

Hence Birth time in GMT = $12:45:0 - 5:30:0 = 7:15:00 \text{ GMT}$

As the birth occurred before noon, add 12:00:00 to get adjusted birth time: $12:00:00 + 7:15:00 = 19:15:00 \text{ GMT}$.

Step 2: In the above case, as we have added 12:00:00, take the sidereal time on the previous day of the birth day. In this case it is 24-8-1952. The sidereal time on 24-8-1952 is given as 10:10:49 at 12:00 UT. We have to compute the sidereal time at the birth time of 19:15 GMT. This can be obtained by ratio proportional method. On 25-8-1952, the sidereal time is given as 10:14:46. That is in 24 hours from 24th to 25th, the sidereal time is changed by $10:14:46 - 10:10:49 = 00:3:57 = 237 \text{ sec}$. Now for 24 hours change in sidereal time is 237 sec. For 19:15:0, the change in sidereal time is $\frac{19:15:0}{24} \times 237 \text{ sec} = 190.1 \text{ sec} = 190 \text{ sec} = 00:3:10$

Sidereal time at birth time (GMT) = $10:10:49 + 00:03:10 = 10:13:59$

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = $19:15:0 + 10:13:59 = 29:28:59 \text{ (GMT)}$

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 E and not 82:30 E).

Star time at birth (Local) = $29:28:59 + \frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222\text{hrs}$
 $= 29:28:59 + 5:15:8 = 34:44:7$

Subtracting 24 hrs from the result we get $34:44:7 - 24:00:00 = \mathbf{10:44:7}$

So which ever may the ephemeris one uses, RAMC for a given birth time, date and place should be identical.

Use the method given above to compute the Houses.

Example 2: Date of birth: 25-8-1952 (August 25, 1952)

Time of birth: 12:45:00, **LST**

Place of birth: XXXXX, YYYYY (**14:30 N, 78:47 W**)

Standard longitude: **82:30 W**

Day light saving time?: No

Notice that birth time is given in Local standard time. The place is west of Greenwich (78:47 W and standard longitude is 82:30 W).

Computation based on zero hour ephemeris

Step 1: Convert LST to GMT (Use of standard longitude)

Standard longitude = 82°:30' W = 82.5°

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5 : 30$

Longitude is West of Greenwich.

Hence Birth time in GMT = 12:45:0 + 5:30:0 = 18:15:00 GMT

Step 2: Get the sidereal time on 25-8-1952 from ephemeris (see Table 1). The sidereal time on 25-8-1952 is given as 22:12:48 at 0:0 UT. We have to compute the sidereal time at the birth time of 18:15 GMT. On 26-8-1952, the sidereal time is given as 22:16:44. That is in 24 hours from 25th to 26th, the sidereal time is changed by 22:16:44 – 22:12:48 = 00:3:56 = 236 sec. Now for 24 hours change in sidereal time is 236 sec.

For 7:15:0, the change in sidereal time is $\frac{18:15:0}{24} \times 236 \text{ sec} = 179.5 \text{ sec} = 180 \text{ sec} =$

00:03:00

Sidereal time at birth time (GMT) = 22:12:48 + 00:03:00 = 22:15:48

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = 18:15:0 + 22:15:48 = 40:30:48 (GMT)

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 W and not 82:30 W).

Star time at birth (Local) = 40:30:48 - $\frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222\text{hrs}$
 $= 40:30:48 - 5:15:8 = 35:15:40$

As it is more than 24, subtracting 24 hrs from the result we get

RAMC = 35:15:40 – 24:00:00 = **11:15:40**

Use the method given for example 1 to compute the Houses.

Computation of RAMC based on noon hour ephemeris

Step 1: Convert LST to GMT (Use of standard longitude)

Standard longitude = 82°:30' W = 82.5°

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5 : 30$

Longitude is West of Greenwich.

Hence Birth time in GMT = 12:45:0 + 5:30:0 = 18:15:00 GMT

For Sothern Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

As the birth occurred after noon, subtract 12:00:00 from the birth time to get adjusted birth time: 18:15:00 - 12:00:00 = 6:15:00 GMT.

Step 2: Get the sidereal time at noon GMT on 25-8-1952 from ephemeris (see Table 1 above.) On 25-8-1952, the sidereal time at noon is given as 10:14:46. We have to compute the sidereal time at the birth time of 6:15 GMT. On 26-8-1952, the sidereal time is given as 10:18:42. That is in 24 hours from 25th to 26th, the sidereal time is changed by 10:18:42 - 10:14:46 = 00:3:56 = 236 sec. Now for 24 hours change in sidereal time is 236 sec. For 6:15:0, the change in sidereal time is $\frac{6:15:0}{24} \times 236 \text{ sec} = 61.5 \text{ sec} = 62 \text{ sec} = 00:01:02$

Sidereal time at birth time (GMT) = 10:14:46 + 00:01:02 = 10:15:48

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = 6:15:00 + 10:15:48 = 16:30:48 (GMT)

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 W and not 82:30 W).

Star time at birth (Local) = 16:30:48 - $\frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222 \text{ hrs}$
 = 16:30:48 - 5:15:8 = **11:15:40**

So which ever may the ephemeris one uses, RAMC for a given birth time, date and place should be identical.

Use the method given for example 1 to compute the Houses.

Example 3: Date of birth: 25-8-1952 (August 25, 1952)
 Time of birth: 12:45:00, **LST**
 Place of birth: UUUUU, VVVVV (**14:30 S, 78:47 W**)
 Standard longitude: **82:30 W**
 Day light saving time?: No

Notice the birth place is south of equator (South latitude) and west of Greenwich (West longitude)

Computation based on zero hour ephemeris

Step 1: Convert LST to GMT (Use of standard longitude)

Standard longitude = 82°:30' W = 82.5°

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5 \text{ hr} = 5:30$

Longitude is West of Greenwich.

Hence Birth time in GMT = 12:45:0 + 5:30:0 = 18:15:00 GMT

Step 2: Get the sidereal time on 25-8-1952 from ephemeris (Table 1). The sidereal time on 25-8-1952 is given as 22:12:48 at 0:0 UT. We have to compute the sidereal time at the birth time of 18:15 GMT. On 26-8-1952, the sidereal time is given as 22:16:44. That is in 24 hours from 25th to 26th, the sidereal time is changed by 22:16:44 – 22:12:48 = 00:3:56 = 236 sec. Now for 24 hours change in sidereal time is 236 sec. For 7:15:0, the change in sidereal time is $\frac{18:15:0}{24} \times 236 \text{ sec} = 179.5 \text{ sec} = 180 \text{ sec} = 00:03:00$

Sidereal time at birth time (GMT) = 22:12:48 + 00:03:00 = 22:15:48

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = 18:15:0 + 22:15:48 = 40:30:48 (GMT)

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 W and not 82:30 W).

Star time at birth (Local) = 40:30:48 - $\frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222 \text{ hrs}$
 $= 40:30:48 - 5:15:8 = 35:15:40$

As it is more than 24, subtracting 24 hrs from the result we get

35:15:40 – 24:00:00 = 11:15:40

As it is **south latitude**, add 12:0:0 to the result to get

New RAMC = 11:15:40 + 12:00:00 = **23:15:40**

Now let us compute Lagnam and other houses for this South latitude.

The latitude of birth place is 14:30 N and the new RAMC is 23:15:40. If we look up in the Table 3, RAMC (first column) is in between 23:15 and 23:18. The latitude is in between 14 and 15. We have to use interpolation to calculate the houses for 14:30 N and RAMC 23:15:40.

From the Table it is seen that for a change in RAMC of 3 min (180 sec), the 10th house changes from 347:46 to 348:35 = 49 arc min. The difference between new RAMC of 23:15:40 and 23:15:00 is 40 sec. So in the period of 40 sec, the 10th houses changes by $\frac{40}{180} \times 49 = 10.888 = 11 \text{ arcmin}$. This should be added to the 10th house value at 23:15 to get 10th house for new RAMC.

10th house = 347:46 + 00:11 = 347:57

Similarly all the other houses are computed for new RAMC of 23:15:40. These are given below.

New RAMC = 23:15:40

House	Latitude 14 N	Latitude 15 N	Latitude 14:30 N	Add/subtract 180° to column 4
10	347:57	347:57	347:57	167:57
11	21:13	21:17	21:15	201:15
12	54:33	54:48	54:40:30	234:40:30
Lagna	85:30	85:56	85:38	265:38
2	111:01	111:17	111:09	291:09
3	137:48	137:54	137:51	317:51

Recall that we are dealing with south latitude. What we obtained is the houses 4, 5, 6, 7, 8 and 9. To get the correct houses (10, 11, 12, Lagna, 2 and 3) add 180° to the house if it is less than 180° or subtract 180° if the value is more than 180°. This exercise results are shown in the last column in the above Table.

It should be made clear that the house positions obtained as above refer to Sayana houses. To compute Nirayana houses, we should subtract Ayanamsa for the birth year. The Ayanamsa may be calculated using the equation:

For the beginning of the year:

$$A = -6.92416 + 16.90709 \frac{\text{year}}{1000} - 0.757371 \frac{\text{year}}{1000} \frac{\text{year}}{1000}$$

$$B = \left(\text{Month} - 1 + \frac{\text{Day}}{30} \right) \times \frac{1.1574074}{1000}$$

Ayanamsa = A + B. The result will be in degrees. Convert into Degrees, Minutes and Seconds. For 25-8-1952, the Ayanamsa is 23-5-34. The Nirayana Houses are:

House	House	Sayana system	Nirayana system (Sayana house-Ayanamsa)
10	167:57	Kanya 17:57	Simham 24:51:26
11	201:15	Thula 21:15	Kanya 28:09:26
12	234:40:30	Vrischikam 24:40:30	Vrischikam 1:34:56
Lagna	265:38	Dhanus 25:38	Dhanu 2:2:26
2	291:09	Makaram 21:09	Dhanus 28:03:26
3	317:51	Kumbham 17:51	Makaram 14:45:26

Note: For South Latitudes, proceed up to the final result of step 4. Then add 12:0:0 to the result to get new RAMC. Compute the houses for this new RAMC. Add or subtract 180° from each house value to get the correct houses.

Computation of RAMC based on noon hour ephemeris

Step 1: Convert LST to GMT (Use of standard longitude)

For Sothern Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

Standard longitude = $82^{\circ}:30' \text{ W} = 82.5^{\circ}$

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5:30$

Longitude is West of Greenwich.

Hence Birth time in GMT = $12:45:0 + 5:30:0 = 18:15:00 \text{ GMT}$

As the birth occurred after noon, subtract 12:00:00 from the birth time to get adjusted birth time: $18:15:00 - 12:00:00 = 6:15:00 \text{ GMT}$.

Step 2: Get the sidereal time at noon GMT on 25-8-1952 from ephemeris (see Table 1 above.) On 25-8-1952, the sidereal time at noon is given as 10:14:46. We have to compute the sidereal time at the birth time of 6:15 GMT. This can be obtained by ratio proportional method. On 26-8-1952, the sidereal time is given as 10:18:42. That is in 24 hours from 25th to 26th, the sidereal time is changed by $10:18:42 - 10:14:46 = 00:3:56 = 236 \text{ sec}$. Now for 24 hours change in sidereal time is 236 sec. For 6:15:0, the change in sidereal time is $\frac{6:15:0}{24} \times 236 \text{ sec} = 61.5 \text{ sec} = 62 \text{ sec} = 00:01:02$

Sidereal time at birth time (GMT) = $10:14:46 + 00:01:02 = 10:15:48$

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = $6:15:00 + 10:15:48 = 16:30:48 \text{ (GMT)}$

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 W and not 82:30 W).

Star time at birth (Local) = $16:30:48 - \frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222\text{hrs}$
 $= 16:30:48 - 5:15:8 = \mathbf{11:15:40}$

As it is **south latitude**, add 12:0:0 to the result to get

New RAMC = $11:15:40 + 12:00:00 = \mathbf{23:15:40}$.

So which ever may the ephemeris one uses, RAMC for a given birth time, date and place should be identical. Proceed for computation of houses as described in the example 3.

Example 4: Date of birth: 25-8-1952 (August 25, 1952)

Time of birth: 12:45:00, **LST**

Place of birth: SSSSS, TTTT (**14:30 S, 78:47 E**)

Standard longitude: **82:30 E**

Day light saving time?: No

Notice the birth place is south of equator (South latitude) and East of Greenwich (East longitude)

Computation based on zero hour ephemeris

Step 1: Convert IST to GMT (Use of standard longitude)

Standard longitude = $82^{\circ}:30' \text{ E} = 82.5^{\circ}$

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5 : 30$

Longitude is East of Greenwich.

Hence Birth time in GMT = $12:45:0 - 5:30:0 = 7:15:00 \text{ GMT}$

Step 2: Get the sidereal time on 25-8-1952 from ephemeris. Let use Swiss ephemeris for the year 1952 (see Table 2 above). Swiss ephemeris is computed for exactly 0:0 GMT (or Universal Time UT). The sidereal time on 25-8-1952 is given as 22:12:48 at 0:0 UT. We have to compute the sidereal time at the birth time of 7:15 GMT. This can be obtained by ratio proportional method. On 26-8-1952, the sidereal time is given as 22:16:44. That is in 24 hours from 25th to 26th, the sidereal time is changed by $22:16:44 - 22:12:48 = 00:3:56 = 236 \text{ sec}$. Now for 24 hours change in sidereal time is 236 sec. For 7:15:0, the change in sidereal time is $\frac{7:15:0}{24} \times 236 \text{ sec} = 71.3 \text{ sec} = 71 \text{ sec} = 00:1:11$

Sidereal time at birth time (GMT) = $22:12:48 + 00:01:11 = 22:13:59$

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = $7:15:0 + 22:13:59 = 29:28:59 \text{ (GMT)}$

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude ($78:47 \text{ E}$ and not $82:30 \text{ E}$).

Star time at birth (Local) = $29:28:59 + \frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222\text{hrs}$
 $= 29:28:59 + 5:15:8 = 34:44:7$

Subtracting 24 hrs from the result we get

$34:44:7 - 24:00:00 = \mathbf{10:44:7}$

As it is **south latitude**, add 12:0:0 to the result to get

RAMC = $10:44:7 + 12:00:00 = \mathbf{22:44:7}$

Proceed for computation of houses as described in the example 3.

Computation of RAMC based on noon hour ephemeris

Step 1: Convert IST to GMT (Use of standard longitude)

Standard longitude = $82^{\circ}:30' \text{ E} = 82.5^{\circ}$

Converting this into time zone we get $\frac{82.5(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.5\text{hr} = 5 : 30$

Longitude is East of Greenwich.

For Sothern Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

Hence Birth time in GMT = 12:45:0 - 5:30:0 = 7:15:00 GMT

As the birth occurred before noon, add 12:00:00 to get adjusted birth time: 12:00:00 + 7:15:00 = 19:15:00 GMT.

Step 2: In the above case, as we have added 12:00:00, take the sidereal time on the previous day of the birth day. In this case it is 24-8-1952. The sidereal time on 24-8-1952 is given as 10:10:49 at 12:00 UT. We have to compute the sidereal time at the birth time of 19:15 GMT. This can be obtained by ratio proportional method. On 25-8-1952, the sidereal time is given as 10:14:46. That is in 24 hours from 24th to 25th, the sidereal time is changed by 10:14:46 - 10:10:49 = 00:3:57 = 237 sec. Now for 24 hours change in sidereal time is 237 sec. For 19:15:0, the change in sidereal time is $\frac{19:15:0}{24} \times 237 \text{ sec} = 190.1 \text{ sec} = 190 \text{ sec} = 00:3:10$

Sidereal time at birth time (GMT) = 10:10:49 + 00:03:10 = 10:13:59

Step 3: Compute star time at birth (at GMT). Add birth time (at GMT) and the sidereal time at birth.

Star time at birth (GMT) = 19:15:0 + 10:13:59 = 29:28:59 (GMT)

Step 4: Convert star time at birth (GMT) to Star time at Birth (Local). Note that the longitude to be considered is for the birth place and not the standard longitude (78:47 E and not 82:30 E).

Star time at birth (Local) = 29:28:59 + $\frac{78:47(\text{degrees})}{15(\text{degrees} / \text{hr})} = 5.25222 \text{ hrs}$
= 29:28:59 + 5:15:8 = 44:44:7

Subtracting 24 hrs from the result we get 44:44:7 - 24:00:00 = **10:44:7**

As it is **south latitude**, add 12:0:0 to the result to get

RAMC = 10:44:7 + 12:00:00 = **22:44:7**

So which ever may the ephemeris one uses, RAMC for a given birth time, date and place should be identical. Proceed for computation of houses as described in the example 3.

In some countries during summer the clock time is advanced by one or two hours to save on day light. This is called summer time or day light saving time. The standard longitude is not changed and remains same and with respect this standard longitude the time difference from GMT also remains the same. One should be vigilant and **subtract the number of hours as the case may be from the birth time** and proceed with casting of horoscope. Summer time concept is purely an administrative convenience. This should never be used for horoscope casting.

Summary and important points to be noted while computing Houses

1. Note down the birth time, Latitude and Longitude of the birth place and standard Longitude
2. If summer time is being followed and day light saving time is used, subtract this time (no. of hours of daylight saving as announced by the Administration) from the birth time.
3. House cusps shall always be calculated for the Local time.
4. Have the ephemeris (either noon or midnight) containing sidereal time and the positions of the planets and astrological tables of houses.
5. For South latitudes follow the principle of "forward RAMC by 12, compute and retreat by 180^0 to get cusps". That is add 12:00:00 to the RAMC to get new RAMC. Compute the houses and add or subtract 180^0 from the cusps.

There could be other methods of RAMC computation. But I found the method described here is relatively easy with minimum corrections. Converting the birth time to GMT and carrying out all calculations to get RAMC at GMT and then converting the final result to RAMC at LMT is very easy.

Carrying out computations at LMT is somewhat elaborate in the sense that not only longitudinal corrections for birth time but also corrections to sidereal time (longitudinal correction and accelerator or Doppler correction) need to be carried out.

One may use the method described in my earlier book "Panchangam calculations" to calculate longitudes of Grahas (Planets). In this monograph, the computation of House longitudes is given. The Astrological Tables of Houses required for this purpose is being given in four parts. The first part covering Latitudes 0 N to 14 N is included in this monograph. I have followed the method described by Alan Leo in his book "The Progressed Horoscope". House cusps have been calculated using Quick Basic Language. Double precision mode was used to increase the accuracy in calculations.

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ASTROLOGICAL TABLES OF HOUSES FOR NORTHERN LATITUDES

PART-1: 0⁰ N TO 32⁰ N

Based on the method described in Alan Leo's book
"The Progressed Horoscope"

Compiled by
Karanam Ramakumar
India

OAM OAM Shri Maha Ganapataye Namah

RAMC H:M	10	LATITUDE : 0N					LATITUDE : 1 N					LATITUDE : 2 N				
		11	12	LAGNA	2	3	11	12	LAGNA	2	3	11	12	LAGNA	2	3
0:0	0:0	32:11	62:5	90:0	117:55	147:49	32:15	62:20	90:23	118:9	147:54	32:20	62:34	90:46	118:23	147:58
0:3	0:49	32:58	62:48	90:41	118:38	148:36	33:2	63:3	91:5	118:52	148:40	33:7	63:17	91:29	119:6	148:45
0:6	1:38	33:44	63:31	91:23	119:21	149:23	33:49	63:46	91:46	119:35	149:27	33:54	64:0	92:10	119:49	149:32
0:9	2:27	34:31	64:14	92:4	120:4	150:10	34:36	64:29	92:28	120:18	150:14	34:41	64:43	92:52	120:32	150:19
0:12	3:16	35:17	64:57	92:45	120:47	150:57	35:22	65:11	93:9	121:1	151:1	35:27	65:26	93:33	121:15	151:6
0:15	4:5	36:4	65:39	93:26	121:31	151:45	36:9	65:54	93:50	121:44	151:49	36:14	66:9	94:14	121:58	151:53
0:18	4:54	36:50	66:22	94:8	122:14	152:32	36:55	66:37	94:32	122:28	152:36	37:0	66:52	94:55	122:42	152:40
0:21	5:43	37:36	67:4	94:49	122:58	153:19	37:42	67:19	95:13	123:11	153:23	37:47	67:34	95:37	123:25	153:27
0:24	6:32	38:22	67:47	95:30	123:41	154:7	38:28	68:2	95:54	123:55	154:11	38:33	68:17	96:18	124:8	154:14
0:27	7:21	39:9	68:29	96:12	124:25	154:54	39:14	68:44	96:36	124:38	154:58	39:19	68:59	96:59	124:52	155:2
0:30	8:10	39:54	69:11	96:53	125:9	155:42	39:60	69:27	97:17	125:22	155:46	40:5	69:42	97:41	125:35	155:49
0:33	8:59	40:40	69:54	97:35	125:53	156:30	40:46	70:9	97:58	126:6	156:33	40:51	70:24	98:22	126:19	156:37
0:36	9:48	41:26	70:36	98:16	126:37	157:18	41:31	70:51	98:40	126:50	157:21	41:37	71:6	99:3	127:3	157:24
0:39	10:36	42:12	71:18	98:58	127:21	158:6	42:17	71:33	99:21	127:34	158:9	42:23	71:49	99:45	127:47	158:12
0:42	11:25	42:57	72:0	99:39	128:5	158:54	43:3	72:15	100:3	128:18	158:57	43:8	72:31	100:26	128:31	158:60
0:45	12:14	43:42	72:42	100:21	128:49	159:42	43:48	72:57	100:44	129:2	159:45	43:54	73:13	101:8	129:15	159:48
0:48	13:3	44:28	73:24	101:2	129:34	160:30	44:34	73:39	101:26	129:46	160:33	44:39	73:55	101:49	129:59	160:36
0:51	13:51	45:13	74:6	101:44	130:18	161:18	45:19	74:21	102:7	130:31	161:21	45:25	74:37	102:31	130:43	161:24
0:54	14:40	45:58	74:48	102:25	131:3	162:6	46:4	75:3	102:49	131:15	162:9	46:10	75:19	103:12	131:28	162:12
0:57	15:28	46:43	75:30	103:7	131:47	162:55	46:49	75:45	103:30	131:60	162:57	46:55	76:1	103:54	132:12	162:60
1:0	16:17	47:28	76:11	103:49	132:32	163:43	47:34	76:27	104:12	132:44	163:46	47:40	76:42	104:35	132:56	163:48
1:3	17:5	48:13	76:53	104:30	133:17	164:32	48:19	77:9	104:54	133:29	164:34	48:25	77:24	105:17	133:41	164:36
1:6	17:54	48:57	77:35	105:12	134:2	165:20	49:4	77:50	105:35	134:14	165:22	49:10	78:6	105:58	134:26	165:25
1:9	18:42	49:42	78:16	105:54	134:47	166:9	49:48	78:32	106:17	134:59	166:11	49:55	78:48	106:40	135:11	166:13
1:12	19:30	50:26	78:58	106:36	135:32	166:57	50:33	79:14	106:59	135:44	166:59	50:39	79:29	107:22	135:55	167:1
1:15	20:18	51:11	79:39	107:18	136:18	167:46	51:17	79:55	107:41	136:29	167:48	51:24	80:11	108:4	136:40	167:50
1:18	21:6	51:55	80:21	107:60	137:3	168:35	52:2	80:37	108:23	137:14	168:36	52:8	80:52	108:46	137:26	168:38
1:21	21:54	52:39	81:2	108:42	137:48	169:24	52:46	81:18	109:5	137:60	169:25	52:52	81:34	109:27	138:11	169:27
1:24	22:42	53:23	81:44	109:24	138:34	170:12	53:30	81:60	109:47	138:45	170:14	53:37	82:16	110:9	138:56	170:15
1:27	23:30	54:7	82:25	110:6	139:20	171:1	54:14	82:41	110:29	139:31	171:3	54:21	82:57	110:51	139:41	171:4
1:30	24:18	54:51	83:7	110:49	140:6	171:50	54:58	83:23	111:11	140:16	171:51	55:5	83:38	111:33	140:27	171:53
1:33	25:6	55:35	83:48	111:31	140:51	172:39	55:42	84:4	111:53	141:2	172:40	55:49	84:20	112:16	141:13	172:41
1:36	25:53	56:19	84:30	112:13	141:38	173:28	56:26	84:45	112:36	141:48	173:29	56:32	85:1	112:58	141:58	173:30
1:39	26:41	57:2	85:11	112:56	142:24	174:17	57:9	85:27	113:18	142:34	174:18	57:16	85:43	113:40	142:44	174:19
1:42	27:28	57:46	85:52	113:38	143:10	175:6	57:53	86:8	114:0	143:20	175:7	57:60	86:24	114:22	143:30	175:7
1:45	28:15	58:29	86:34	114:21	143:56	175:55	58:36	86:49	114:43	144:6	175:55	58:43	87:5	115:5	144:16	175:56
1:48	29:3	59:13	87:15	115:3	144:43	176:44	59:20	87:31	115:25	144:52	176:44	59:27	87:47	115:47	145:2	176:45
1:51	29:50	59:56	87:56	115:46	145:29	177:33	60:3	88:12	116:8	145:39	177:33	60:10	88:28	116:30	145:48	177:34
1:54	30:37	60:39	88:37	116:29	146:16	178:22	60:46	88:53	116:51	146:25	178:22	60:53	89:9	117:12	146:34	178:22
1:57	31:24	61:22	89:19	117:12	147:2	179:11	61:29	89:35	117:33	147:12	179:11	61:37	89:51	117:55	147:21	179:11
2:0	32:11	62:5	90:0	117:55	147:49	180:0	62:13	90:16	118:16	147:58	180:0	62:20	90:31	118:37	148:7	180:0
2:3	32:58	62:48	90:41	118:38	148:36	180:49	62:56	90:57	118:59	148:45	180:49	63:3	91:13	119:20	148:54	180:49
2:6	33:44	63:31	91:23	119:21	149:23	181:38	63:38	91:38	119:42	149:32	181:38	63:46	91:54	120:3	149:40	181:38
2:9	34:31	64:14	92:4	120:4	150:10	182:27	64:21	92:20	120:25	150:19	182:27	64:29	92:36	120:46	150:27	182:26
2:12	35:17	64:57	92:45	120:47	150:57	183:16	65:4	93:1	121:8	151:6	183:16	65:11	93:17	121:29	151:14	183:15
2:15	36:4	65:39	93:26	121:31	151:45	184:5	65:47	93:42	121:51	151:53	184:5	65:54	93:58	122:12	152:1	184:4
2:18	36:50	66:22	94:8	122:14	152:32	184:54	66:29	94:24	122:35	152:40	184:53	66:37	94:40	122:55	152:47	184:53
2:21	37:36	67:4	94:49	122:58	153:19	185:43	67:12	95:5	123:18	153:27	185:42	67:19	95:21	123:38	153:35	185:41
2:24	38:22	67:47	95:30	123:41	154:7	186:32	67:54	95:46	124:2	154:14	186:31	68:2	96:2	124:22	154:22	186:30
2:27	39:9	68:29	96:12	124:25	154:54	187:21	68:37	96:28	124:45	155:2	187:20	68:44	96:44	125:5	155:9	187:19
2:30	39:54	69:11	96:53	125:9	155:42	188:10	69:19	97:9	125:29	155:49	188:9	69:27	97:25	125:49	155:56	188:7
2:33	40:40	69:54	97:35	125:53	156:30	188:59	70:1	97:50	126:13	156:37	188:57	70:9	98:6	126:32	156:43	188:56
2:36	41:26	70:36	98:16	126:37	157:18	189:48	70:43	98:32	126:56	157:24	189:46	70:51	98:48	127:16	157:31	189:45
2:39	42:12	71:18	98:58	127:21	158:6	190:36	71:26	99:13	127:40	158:12	190:35	71:33	99:29	127:60	158:18	190:33
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23:42	355: 6	27:40	58:28	87: 4	114:22	143:25	27:44	58:42	87:28	114:37	143:30	27:48	58:56	87:52	114:52	143:35
23:45	355:55	28:28	59:11	87:45	115: 5	144:11	28:32	59:26	88: 9	115:19	144:16	28:36	59:40	88:33	115:34	144:21
23:48	356:44	29:15	59:55	88:26	115:47	144:57	29:19	60: 9	88:50	116: 2	145: 2	29:24	60:24	89:14	116:16	145: 7
23:51	357:33	30: 3	60:39	89: 8	116:30	145:43	30: 7	60:53	89:32	116:44	145:48	30:11	61: 8	89:56	116:58	145:53
23:54	358:22	30:50	61:22	89:49	117:12	146:30	30:54	61:37	90:13	117:26	146:34	30:59	61:51	90:37	117:41	146:39
23:57	359:11	31:37	62: 5	90:30	117:55	147:16	31:42	62:20	90:54	118: 9	147:21	31:46	62:35	91:18	118:23	147:25
24: 0	0: 0	32:24	62:49	91: 8	118:37	148: 3	32:29	63: 3	91:29	118:52	148: 7	32:34	63:18	91:50	119: 6	148:12

For Sothern Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

RAMC (H:M)	10	LATITUDE : 6 N					LATITUDE : 7 N					LATITUDE : 8 N				
		11	12	LAGNA	2	3	11	12	LAGNA	2	3	11	12	LAGNA	2	3
0 : 0	0: 0	32:38	63:33	92:10	119:20	148:16	32:43	63:48	92:29	119:34	148:20	32:48	64: 3	92:48	119:48	148:25
0 : 3	0:49	33:26	64:16	93: 5	120: 2	149: 2	33:31	64:31	93:29	120:16	149: 7	33:35	64:47	93:53	120:30	149:11
0 : 6	1:38	34:13	64:60	93:46	120:45	149:49	34:18	65:15	94:10	120:59	149:53	34:23	65:30	94:34	121:13	149:57
0 : 9	2:27	35: 0	65:43	94:27	121:28	150:35	35: 5	65:58	94:51	121:41	150:39	35:10	66:13	95:15	121:55	150:44
0:12	3:16	35:47	66:26	95: 8	122:10	151:22	35:52	66:41	95:32	122:24	151:26	35:57	66:57	95:56	122:38	151:30
0:15	4: 5	36:34	67: 9	95:50	122:53	152: 9	36:39	67:24	96:14	123: 7	152:12	36:45	67:40	96:38	123:20	152:16
0:18	4:54	37:21	67:52	96:31	123:36	152:55	37:26	68: 7	96:55	123:50	152:59	37:32	68:23	97:19	124: 3	153: 3
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0:24	6:32	38:54	69:18	97:53	125: 2	154:29	38:60	69:33	98:17	125:15	154:33	39: 5	69:49	98:41	125:29	154:36
0:27	7:21	39:41	70: 0	98:34	125:45	155:16	39:46	70:16	98:58	125:58	155:20	39:52	70:32	99:22	126:11	155:23
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0:33	8:59	41:13	71:26	99:56	127:11	156:50	41:19	71:41	100:20	127:24	156:54	41:25	71:57	100:44	127:37	156:57
0:36	9:48	41:60	72: 8	100:38	127:55	157:37	42: 5	72:24	101: 1	128: 8	157:41	42:11	72:40	101:25	128:21	157:44
0:39	10:36	42:46	72:50	101:19	128:38	158:25	42:52	73: 6	101:42	128:51	158:28	42:57	73:22	102: 6	129: 4	158:31
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0:48	13: 3	45: 3	74:57	103:22	130:49	160:47	45: 9	75:13	103:46	131: 1	160:50	45:15	75:29	104: 9	131:14	160:53
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3 : 6	48:57	78:22	106:45	135:47	165:46	197:38	78:30	107: 0	136: 4	165:50	197:35	78:38	107:15	136:21	165:54	197:33
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RAMC (H:M)	10	LATITUDE : 6 N					LATITUDE : 7 N					LATITUDE : 8 N				
		11	12	LAGNA	2	3	11	12	LAGNA	2	3	11	12	LAGNA	2	3
3:39	57:2	85:59	114:24	143:53	174:27	206:18	86:7	114:39	144:8	174:29	206:14	86:15	114:54	144:22	174:30	206:10
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20:24	303:41	333:32	6:51	40:52	70:4	96:42	333:28	6:53	41:10	70:20	96:50	333:24	6:55	41:29	70:36	96:59
20:27	304:25	334:21	7:42	41:40	70:47	97:24	334:17	7:45	41:59	71:3	97:32	334:13	7:47	42:17	71:19	97:40
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20:36	306:37	336:47	10:16	44:4	72:55	99:27	336:44	10:19	44:23	73:11	99:36	336:40	10:22	44:43	73:28	99:44
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20:45	308:49	339:14	12:49	46:27	75:3	101:32	339:11	12:53	46:47	75:19	101:40	339:8	12:57	47:7	75:35	101:48
20:48	309:34	340:3	13:40	47:14	75:45	102:13	340:0	13:44	47:34	76:1	102:21	339:57	13:49	47:54	76:18	102:29
20:51	310:18	340:53	14:31	48:1	76:27	102:54	340:50	14:35	48:21	76:44	103:2	340:47	14:40	48:42	76:60	103:10
20:54	311:3	341:42	15:21	48:48	77:10	103:36	341:39	15:26	49:9	77:26	103:44	341:36	15:31	49:29	77:42	103:52
20:57	311:47	342:31	16:12	49:35	77:52	104:17	342:29	16:17	49:56	78:8	104:25	342:26	16:23	50:16	78:24	104:33
21:0	312:32	343:21	17:3	50:22	78:34	104:59	343:18	17:8	50:42	78:50	105:7	343:16	17:14	51:3	79:6	105:15
21:3	313:17	344:10	17:53	51:8	79:16	105:40	344:8	17:59	51:29	79:32	105:48	344:5	18:5	51:50	79:48	105:56
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21:9	314:47	345:50	19:34	52:41	80:39	107:4	345:47	19:40	53:2	80:56	107:11	345:45	19:47	53:24	81:12	107:19
21:12	315:32	346:39	20:24	53:27	81:21	107:45	346:37	20:31	53:48	81:38	107:53	346:35	20:38	54:10	81:54	108:1
21:15	316:18	347:29	21:15	54:13	82:3	108:27	347:27	21:21	54:34	82:19	108:35	347:25	21:28	54:56	82:36	108:43
21:18	317:3	348:19	22:5	54:59	82:45	109:9	348:17	22:12	55:20	83:1	109:17	348:15	22:19	55:43	83:18	109:24
21:21	317:48	349:9	22:55	55:44	83:26	109:51	349:7	23:2	56:6	83:43	109:58	349:5	23:9	56:29	83:59	110:6
21:24	318:34	349:59	23:45	56:30	84:8	110:32	349:57	23:52	56:52	84:24	110:40	349:55	23:60	57:14	84:41	110:48
21:27	319:20	350:49	24:35	57:15	84:49	111:14	350:47	24:42	57:38	85:6	111:22	350:46	24:50	58:0	85:22	111:30
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21:33	320:51	352:29	26:14	58:46	86:12	112:38	352:27	26:22	59:8	86:29	112:46	352:26	26:31	59:31	86:45	112:54
21:36	321:38	353:19	27:4	59:31	86:54	113:20	353:18	27:12	59:53	87:10	113:28	353:17	27:21	60:16	87:27	113:36
21:39	322:24	354:9	27:53	60:16	87:35	114:3	354:8	28:2	60:38	87:52	114:10	354:7	28:10	61:1	88:8	114:18
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21:45	323:56	355:49	29:32	61:45	88:58	115:27	355:48	29:41	62:8	89:14	115:34	355:48	29:50	62:31	89:31	115:42
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RAMC (H:M)	10	LATITUDE : 9 N					LATITUDE : 10 N					LATITUDE : 11 N				
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22: 9	330:10	2:31	36: 1	67:38	94:28	121: 7	2:31	36:12	68: 2	94:44	121:14	2:31	36:23	68:26	95: 1	121:21
22:12	330:57	3:21	36:49	68:21	95: 9	121:50	3:21	37: 0	68:45	95:25	121:57	3:22	37:11	69: 9	95:42	122: 4
22:15	331:45	4:11	37:37	69: 5	95:50	122:33	4:12	37:48	69:29	96: 7	122:40	4:12	37:60	69:53	96:23	122:47
22:18	332:32	5: 1	38:25	69:48	96:31	123:16	5: 2	38:36	70:12	96:48	123:23	5: 3	38:48	70:37	97: 4	123:30
22:21	333:19	5:51	39:13	70:32	97:13	123:59	5:52	39:24	70:56	97:29	124: 6	5:53	39:36	71:20	97:45	124:13
22:24	334: 7	6:41	40: 1	71:15	97:54	124:42	6:42	40:12	71:39	98:10	124:49	6:43	40:24	72: 3	98:26	124:56
22:27	334:54	7:31	40:48	71:58	98:35	125:26	7:33	40:60	72:22	98:51	125:32	7:34	41:12	72:46	99: 7	125:39
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22:33	336:30	9:11	42:23	73:24	99:57	126:52	9:13	42:35	73:48	100:13	126:59	9:14	42:47	74:13	100:29	127: 6
22:36	337:18	10: 1	43:10	74: 6	100:38	127:36	10: 3	43:22	74:31	100:54	127:42	10: 5	43:34	74:55	101:10	127:49
22:39	338: 6	10:51	43:57	74:49	101:20	128:19	10:53	44: 9	75:14	101:36	128:26	10:55	44:22	75:38	101:52	128:33
22:42	338:54	11:41	44:44	75:32	102: 1	129: 3	11:43	44:56	75:56	102:17	129:10	11:45	45: 9	76:21	102:33	129:16
22:45	339:42	12:31	45:30	76:14	102:42	129:47	12:33	45:43	76:39	102:58	129:53	12:35	45:56	77: 3	103:14	129:60
22:48	340:30	13:21	46:17	76:57	103:23	130:31	13:23	46:30	77:21	103:39	130:37	13:25	46:43	77:46	103:55	130:43
22:51	341:18	14:10	47: 3	77:39	104: 4	131:15	14:13	47:16	78: 4	104:20	131:21	14:15	47:30	78:28	104:36	131:27
22:54	342: 6	15: 0	47:50	78:21	104:46	131:59	15: 2	48: 3	78:46	105: 1	132: 5	15: 5	48:16	79:11	105:17	132:11
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23: 0	343:43	16:39	49:22	79:46	106: 8	133:27	16:42	49:35	80:10	106:24	133:33	16:44	49:49	80:35	106:40	133:39
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23: 6	345:20	18:18	50:54	81:10	107:31	134:55	18:21	51: 8	81:34	107:46	135: 1	18:24	51:21	81:59	108: 2	135: 7
23: 9	346: 9	19: 7	51:40	81:52	108:12	135:40	19:10	51:53	82:16	108:28	135:46	19:13	52: 7	82:41	108:43	135:52
23:12	346:57	19:57	52:25	82:34	108:54	136:24	19:60	52:39	82:58	109: 9	136:30	20: 3	52:53	83:23	109:25	136:36
23:15	347:46	20:46	53:11	83:15	109:35	137: 9	20:49	53:25	83:40	109:51	137:15	20:52	53:39	84: 5	110: 6	137:21
23:18	348:35	21:35	53:56	83:57	110:17	137:54	21:38	54:10	84:22	110:32	137:59	21:42	54:24	84:47	110:47	138: 5
23:21	349:24	22:24	54:41	84:39	110:58	138:39	22:27	54:55	85: 3	111:13	138:44	22:31	55:10	85:28	111:29	138:50
23:24	350:12	23:13	55:26	85:20	111:40	139:24	23:16	55:41	85:45	111:55	139:29	23:20	55:55	86:10	112:10	139:35
23:27	351: 1	24: 2	56:11	86: 2	112:21	140: 9	24: 5	56:26	86:27	112:36	140:14	24: 9	56:40	86:51	112:52	140:19
23:30	351:50	24:50	56:56	86:43	113: 3	140:54	24:54	57:11	87: 8	113:18	140:59	24:58	57:25	87:33	113:33	141: 4
23:33	352:39	25:39	57:41	87:25	113:45	141:39	25:43	57:55	87:50	113:60	141:44	25:47	58:10	88:14	114:15	141:49
23:36	353:28	26:28	58:25	88: 6	114:26	142:24	26:32	58:40	88:31	114:41	142:29	26:36	58:55	88:56	114:56	142:34
23:39	354:17	27:16	59:10	88:48	115: 8	143: 9	27:20	59:25	89:12	115:23	143:15	27:24	59:40	89:37	115:38	143:20
23:42	355: 6	28: 5	59:54	89:29	115:50	143:55	28: 9	60: 9	89:54	116: 5	143:60	28:13	60:24	90:18	116:19	144: 5
23:45	355:55	28:53	60:38	90:10	116:32	144:40	28:57	60:53	90:35	116:47	144:45	29: 2	61: 9	90:60	117: 1	144:50
23:48	356:44	29:41	61:23	90:52	117:14	145:26	29:45	61:38	91:16	117:28	145:31	29:50	61:53	91:41	117:43	145:36
23:51	357:33	30:29	62: 7	91:33	117:56	146:12	30:34	62:22	91:57	118:10	146:16	30:38	62:37	92:22	118:25	146:21
23:54	358:22	31:17	62:51	92:14	118:38	146:58	31:22	63: 6	92:38	118:52	147: 2	31:26	63:21	93: 3	119: 7	147: 7
23:57	359:11	32: 5	63:34	92:55	119:20	147:43	32:10	63:50	93:20	119:34	147:48	32:14	64: 5	93:44	119:49	147:53
24: 0	0: 0	32:53	64:18	93: 7	120: 2	148:29	32:57	64:34	93:25	120:16	148:34	33: 2	64:49	93:42	120:31	148:38

For Sothern Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

RAMC (H:M)	10	LATITUDE : 12 N					LATITUDE : 13 N					LATITUDE : 14 N				
		11	12	LAGNA	2	3	11	12	LAGNA	2	3	11	12	LAGNA	2	3
0: 0	0: 0	33: 7	65: 5	93:59	120:45	148:43	33:12	65:21	94:16	120:59	148:47	33:17	65:37	94:32	121:13	148:52
0: 3	0:49	33:55	65:49	95:31	121:27	149:29	34: 0	66: 5	95:56	121:41	149:33	34: 6	66:21	96:21	121:55	149:37
0: 6	1:38	34:43	66:32	96:12	122: 9	150:14	34:48	66:48	96:37	122:23	150:19	34:54	67: 5	97: 2	122:37	150:23
0: 9	2:27	35:31	67:16	96:53	122:51	151: 0	35:36	67:32	97:17	123: 5	151: 5	35:41	67:48	97:42	123:19	151: 9
0:12	3:16	36:18	67:60	97:34	123:33	151:46	36:24	68:16	97:58	123:47	151:50	36:29	68:32	98:23	124: 1	151:55
0:15	4: 5	37: 6	68:43	98:15	124:15	152:32	37:11	68:59	98:39	124:29	152:36	37:17	69:16	99: 4	124:43	152:40
0:18	4:54	37:53	69:26	98:55	124:57	153:19	37:59	69:43	99:20	125:11	153:22	38: 4	69:59	99:45	125:25	153:26
0:21	5:43	38:40	70: 9	99:36	125:40	154: 5	38:46	70:26	100: 1	125:53	154: 9	38:52	70:42	100:25	126: 7	154:12
0:24	6:32	39:28	70:53	100:17	126:22	154:51	39:33	71: 9	100:41	126:35	154:55	39:39	71:26	101: 6	126:49	154:59
0:27	7:21	40:15	71:36	100:58	127: 4	155:37	40:20	71:52	101:22	127:18	155:41	40:26	72: 9	101:46	127:31	155:45
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0:33	8:59	41:48	73: 1	102:19	128:29	157:10	41:54	73:18	102:44	128:42	157:14	42: 0	73:35	103: 8	128:55	157:17
0:36	9:48	42:35	73:44	103: 0	129:12	157:57	42:41	74: 1	103:24	129:25	158: 0	42:47	74:17	103:48	129:38	158: 4
0:39	10:36	43:21	74:27	103:41	129:55	158:44	43:28	74:43	104: 5	130: 7	158:47	43:34	75: 0	104:29	130:20	158:50
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1:33	25: 6	56:59	87: 2	115:56	142:55	172:52	57: 6	87:19	116:18	143: 5	172:53	57:14	87:36	116:40	143:15	172:54
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1:42	27:28	59:11	89: 6	117:59	145: 7	175:15	59:19	89:23	118:20	145:17	175:15	59:27	89:40	118:42	145:26	175:16
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1:54	30:37	62: 7	91:51	120:44	148: 5	178:25	62:15	92: 8	121: 5	148:14	178:25	62:22	92:25	121:26	148:22	178:25
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RAMC (H:M)	10	LATITUDE : 15 N					LATITUDE : 16 N					LATITUDE : 17 N				
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20:18	302:14	331: 1	5:31	43:11	72: 1	97: 2	330:56	5:33	43:34	72:20	97:12	330:50	5:35	43:58	72:39	97:21
20:21	302:58	331:50	6:26	44: 3	72:45	97:43	331:45	6:29	44:26	73: 3	97:53	331:40	6:31	44:50	73:22	98: 2
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20:27	304:25	333:30	8:16	45:46	74:12	99: 6	333:26	8:19	46:10	74:30	99:15	333:21	8:23	46:34	74:49	99:24
20:30	305: 9	334:20	9:11	46:37	74:55	99:47	334:16	9:14	47: 1	75:14	99:56	334:11	9:18	47:26	75:33	100: 5
20:33	305:53	335:11	10: 6	47:28	75:38	100:28	335: 6	10:10	47:53	75:57	100:37	335: 2	10:14	48:18	76:16	100:46
20:36	306:37	336: 1	11: 1	48:19	76:21	101: 9	335:57	11: 5	48:44	76:40	101:18	335:52	11: 9	49: 9	76:59	101:27
20:39	307:21	336:51	11:55	49:10	77: 4	101:50	336:47	11:60	49:34	77:23	101:59	336:43	12: 5	49:60	77:42	102: 8
20:42	308: 5	337:42	12:50	49:60	77:47	102:31	337:38	12:55	50:25	78: 5	102:40	337:34	13: 0	50:51	78:25	102:49
20:45	308:49	338:32	13:44	50:50	78:29	103:12	338:29	13:50	51:15	78:48	103:21	338:25	13:55	51:41	79: 7	103:30
20:48	309:34	339:23	14:39	51:40	79:12	103:53	339:19	14:45	52: 5	79:31	104: 2	339:16	14:51	52:31	79:50	104:11
20:51	310:18	340:14	15:33	52:29	79:54	104:34	340:10	15:39	52:55	80:13	104:43	340: 7	15:46	53:21	80:32	104:52
20:54	311: 3	341: 5	16:28	53:19	80:37	105:16	341: 1	16:34	53:45	80:56	105:25	340:58	16:41	54:11	81:15	105:34
20:57	311:47	341:56	17:22	54: 8	81:19	105:57	341:52	17:29	54:34	81:38	106: 6	341:49	17:36	55: 1	81:57	106:15
21: 0	312:32	342:47	18:16	54:57	82: 1	106:38	342:44	18:23	55:23	82:20	106:47	342:40	18:30	55:50	82:39	106:56
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21: 9	314:47	345:21	20:58	57:22	84: 7	108:42	345:18	21: 6	57:49	84:26	108:50	345:15	21:14	58:17	84:45	108:59
21:12	315:32	346:12	21:51	58:10	84:49	109:23	346: 9	21:60	58:37	85: 8	109:32	346: 7	22: 8	59: 5	85:27	109:41
21:15	316:18	347: 3	22:45	58:58	85:31	110: 4	347: 1	22:53	59:25	85:50	110:13	346:58	23: 2	59:53	86: 9	110:22
21:18	317: 3	347:55	23:38	59:46	86:13	110:46	347:53	23:47	60:13	86:31	110:54	347:50	23:56	60:41	86:50	111: 3
21:21	317:48	348:46	24:31	60:33	86:54	111:27	348:44	24:41	61: 1	87:13	111:36	348:42	24:50	61:29	87:32	111:44
21:24	318:34	349:38	25:24	61:21	87:36	112: 9	349:36	25:34	61:48	87:54	112:17	349:34	25:44	62:16	88:13	112:26
21:27	319:20	350:30	26:17	62: 8	88:17	112:50	350:28	26:27	62:35	88:36	112:59	350:26	26:37	63: 3	88:55	113: 7
21:30	320: 6	351:21	27:10	62:54	88:59	113:32	351:20	27:20	63:22	89:17	113:40	351:18	27:31	63:50	89:36	113:49
21:33	320:51	352:13	28: 3	63:41	89:40	114:13	352:12	28:13	64: 9	89:59	114:22	352:10	28:24	64:37	90:18	114:30
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21:39	322:24	353:57	29:48	65:14	91: 2	115:36	353:56	29:59	65:42	91:21	115:45	353:54	30:10	66:10	91:40	115:53
21:42	323:10	354:49	30:40	65:60	91:44	116:18	354:48	30:51	66:28	92: 2	116:26	354:47	31: 3	66:56	92:21	116:35
21:45	323:56	355:40	31:32	66:46	92:25	116:60	355:40									

RAMC (H:M)	10	LATITUDE : 21 N					LATITUDE : 22 N					LATITUDE : 23 N				
		11	12	LAGNA	2	3	11	12	LAGNA	2	3	11	12	LAGNA	2	3
22: 9	330:10	2:36	38:22	72:46	97:52	122:36	2:36	38:36	73:14	98:10	122:43	2:37	38:50	73:44	98:29	122:51
22:12	330:57	3:28	39:13	73:30	98:33	123:18	3:28	39:27	73:59	98:51	123:25	3:29	39:41	74:28	99: 9	123:33
22:15	331:45	4:20	40: 3	74:14	99:13	124: 0	4:20	40:17	74:43	99:32	124: 8	4:21	40:31	75:12	99:50	124:15
22:18	332:32	5:11	40:53	74:58	99:54	124:42	5:12	41: 8	75:27	100:12	124:50	5:13	41:22	75:56	100:30	124:58
22:21	333:19	6: 3	41:43	75:42	100:35	125:25	6: 4	41:58	76:11	100:53	125:32	6: 6	42:12	76:40	101:11	125:40
22:24	334: 7	6:55	42:33	76:26	101:15	126: 7	6:56	42:48	76:54	101:33	126:15	6:58	43: 3	77:23	101:51	126:22
22:27	334:54	7:47	43:23	77: 9	101:56	126:50	7:48	43:38	77:38	102:14	126:57	7:50	43:53	78: 7	102:32	127: 5
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22:33	336:30	9:30	45: 2	78:36	103:17	128:15	9:32	45:17	79: 4	103:35	128:22	9:34	45:32	79:34	103:53	128:30
22:36	337:18	10:22	45:51	79:19	103:58	128:58	10:24	46: 6	79:48	104:15	129: 5	10:26	46:22	80:17	104:33	129:12
22:39	338: 6	11:14	46:40	80: 2	104:38	129:41	11:16	46:55	80:31	104:56	129:48	11:18	47:11	80:60	105:14	129:55
22:42	338:54	12: 5	47:29	80:45	105:19	130:24	12: 7	47:44	81:13	105:36	130:31	12:10	48: 0	81:42	105:54	130:38
22:45	339:42	12:57	48:17	81:27	105:59	131: 6	12:59	48:33	81:56	106:17	131:13	13: 2	48:49	82:25	106:34	131:21
22:48	340:30	13:48	49: 6	82:10	106:40	131:49	13:51	49:21	82:38	106:57	131:56	13:53	49:38	83: 7	107:15	132: 3
22:51	341:18	14:39	49:54	82:52	107:20	132:33	14:42	50:10	83:21	107:38	132:39	14:45	50:26	83:50	107:55	132:46
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23: 0	343:43	17:13	52:17	84:59	109:22	134:42	17:16	52:34	85:27	109:39	134:49	17:20	52:51	85:56	109:56	134:56
23: 3	344:32	18: 4	53: 5	85:41	110: 2	135:26	18: 8	53:22	86: 9	110:19	135:32	18:11	53:38	86:38	110:37	135:39
23: 6	345:20	18:55	53:52	86:23	110:43	136: 9	18:59	54: 9	86:51	110:60	136:16	19: 2	54:26	87:20	111:17	136:22
23: 9	346: 9	19:46	54:39	87: 5	111:24	136:53	19:50	54:56	87:33	111:40	136:59	19:53	55:14	88: 1	111:57	137: 6
23:12	346:57	20:37	55:26	87:46	112: 4	137:36	20:41	55:43	88:14	112:21	137:43	20:44	56: 1	88:43	112:38	137:49
23:15	347:46	21:28	56:13	88:28	112:45	138:20	21:31	56:30	88:56	113: 1	138:26	21:35	56:48	89:24	113:18	138:33
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23:24	350:12	23:59	58:33	90:32	114:46	140:32	24: 3	58:50	90:60	115: 3	140:38	24: 8	59: 8	91:28	115:19	140:44
23:27	351: 1	24:49	59:19	91:13	115:27	141:16	24:54	59:37	91:41	115:43	141:21	24:58	59:54	92: 9	115:60	141:27
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23:33	352:39	26:30	60:51	92:35	116:48	142:44	26:34	61: 9	93: 3	117: 4	142:49	26:39	61:27	93:31	117:21	142:55
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23:39	354:17	28:10	62:22	93:57	118:10	144:12	28:15	62:40	94:24	118:26	144:18	28:20	62:58	94:52	118:42	144:23
23:42	355: 6	28:59	63: 8	94:38	118:50	144:57	29: 4	63:26	95: 5	119: 6	145: 2	29:10	63:44	95:33	119:22	145: 8
23:45	355:55	29:49	63:53	95:18	119:31	145:41	29:54	64:11	95:46	119:47	145:46	29:60	64:29	96:13	120: 3	145:52
23:48	356:44	30:38	64:38	95:59	120:12	146:26	30:44	64:56	96:26	120:28	146:31	30:49	65:14	96:54	120:43	146:36
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23:57	359:11	33: 6	66:52	98: 0	122:15	148:40	33:12	67:11	98:27	122:30	148:45	33:18	67:29	98:55	122:45	148:49
24: 0	0: 0	33:55	67:37	96:18	122:56	149:24	34: 1	67:55	96:32	123:11	149:29	34: 7	68:14	96:46	123:26	149:34

For Sothern Latitudes, add 12:0:0 to the RAMC. Compute the houses and then add 180° (if less than 180°) or subtract 180° (if it is more) to each house to get the house cusps. (See the main text for details).

RAMC (H:M)	10	LATITUDE : 24 N					LATITUDE : 25 N					LATITUDE : 26 N				
		11	12	LAGNA	2	3	11	12	LAGNA	2	3	11	12	LAGNA	2	3
0: 0	0: 0	34:13	68:33	96:59	123:41	149:39	34:19	68:52	97:13	123:57	149:44	34:26	69:12	97:26	124:12	149:49
0: 3	0:49	35: 2	69:18	100:43	124:22	150:24	35: 9	69:37	101:10	124:37	150:28	35:15	69:57	101:38	124:53	150:33
0: 6	1:38	35:51	70: 2	101:22	125: 2	151: 8	35:58	70:21	101:50	125:17	151:13	36: 4	70:41	102:18	125:33	151:18
0: 9	2:27	36:40	70:46	102: 2	125:43	151:53	36:47	71: 6	102:30	125:58	151:58	36:54	71:26	102:58	126:13	152: 2
0:12	3:16	37:29	71:30	102:42	126:24	152:38	37:36	71:50	103:10	126:39	152:42	37:43	72:10	103:37	126:54	152:47
0:15	4: 5	38:18	72:14	103:22	127: 4	153:22	38:25	72:34	103:49	127:19	153:27	38:32	72:54	104:17	127:34	153:31
0:18	4:54	39: 6	72:58	104: 2	127:45	154: 7	39:13	73:18	104:29	127:60	154:12	39:20	73:38	104:56	128:15	154:16
0:21	5:43	39:55	73:42	104:41	128:26	154:52	40: 2	74: 1	105: 8	128:40	154:56	40: 9	74:22	105:36	128:55	155: 1
0:24	6:32	40:43	74:25	105:21	129: 7	155:37	40:50	74:45	105:48	129:21	155:41	40:57	75: 5	106:15	129:36	155:46
0:27	7:21	41:31	75: 9	106: 1	129:48	156:22	41:38	75:28	106:27	130: 2	156:26	41:46	75:49	106:54	130:16	156:30
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0:33	8:59	43: 7	76:35	107:20	131:10	157:53	43:14	76:55	107:46	131:23	157:56	43:22	77:15	108:13	131:38	158: 0
0:36	9:48	43:55	77:18	107:59	131:51	158:38	44: 2	77:38	108:25	132: 4	158:41	44:10	77:58	108:52	132:18	158:45
0:39	10:36	44:42	78: 1	108:38	132:32	159:23	44:50	78:21	109: 5	132:45	159:27	44:58	78:41	109:31	132:59	159:30
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0:48	13: 3	47: 4	80: 9	110:37	134:35	161:39	47:12	80:29	111: 2	134:48	161:42	47:20	80:49	111:28	135: 2	161:46
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0:57	15:28	49:25	82:16	112:34	136:39	163:56	49:33	82:36	112:60	136:52	163:59	49:41	82:57	113:25	137: 4	164: 1
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1:33	25: 6	58:34	90:37	120:25	144:58	173: 6	58:43	90:56	120:48	145: 9	173: 7	58:52	91:16	121:11	145:20	173: 8
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RAMC (H:M)	10	LATITUDE : 27 N					LATITUDE : 28 N					LATITUDE : 29 N				
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